

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2002-222971**
(43)Date of publication of application : **09.08.2002**

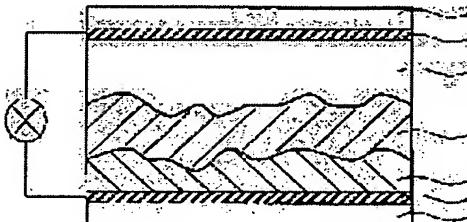
(51)Int.Cl. **H01L 31/04**
H01M 14/00

(21)Application number : **2001-019585** (71)Applicant : **SHARP CORP**
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(54) PHOTOELECTRIC CONVERTER

(57)Abstract:

PROBLEM TO BE SOLVED: To solve the problem that a light absorbing range of a dye used for spectral sensitizing is limited, in a dye sensitized solar battery, and the battery cannot effectively absorb a solar light from visible to near infrared region, and hence a high conversion efficiency like that of a silicon solar battery is not liable to be obtained.



SOLUTION: A photoelectric converter comprises a conductive support, a multilayer porous photoelectric conversion layer, a conductive layer and paired electrodes. The converter having an excellent photoelectric conversion efficiency is obtained by applying a light absorption wavelength of the different dye into the respective layers of the conversion layer, sequentially applying shorter maximum absorbing wavelength from a photodetecting surface, and thereby utilizing a solar light of a wide region.

LEGAL STATUS

[Date of request for examination] **24.01.2003**

[Date of sending the examiner's decision of rejection] 30.05.2006

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]